CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-11/205j/CEMENT/2016-17 Date: 30.11.2016

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of Work	:	Improvements to Roads and Footpath in Cross Roads of Maruthinagar and BB Nagara in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	:	Cement
Sample Received on	:	28.11.2016
Period of Testing	:	28.11.2016 to 30.11.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-11/205a/SAND-Gradation/2016-17 30.11.2016

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency : **Technical Manager,** KRIDL, Bangalore.
* Name of Work : Improvements to Roads and Footpath in Cross Roads of Maruthinagar and BB Nagara in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference : BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID : Fine Aggregates

Technical Reference : IS : 2386 (Part 1) - 1963 (RA-2011)

Sample Received On : 28.11.2016

Date of Testing : 30.11.2016

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.20	90-100	90-100	90-100	95-100
2.36	72.90	60-95	75-100	85-100	95-100
1.18	44.70	30-70	55-90	75-100	90-100
600 Micron	18.70	15-34	35-59	60-79	80-100
300 Micron	13.20	5-20	8-30	12-40	15-50
150 Micron	5.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-11/205a/AGG/GR/2016-17 30.11.2016

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of Work	:	Improvements to Roads and Footpath in Cross Roads of Maruthinagar and BB Nagara in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2016)
Sample Received on	:	28.11.2016
Date of Testing	:	30.11.2016

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2016)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.50	95-100	85-100
20	33.50	30-70	0-20
10	14.46	10-35	0-5
4.75	3.30	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/W.No.08/KRIDL/Steel/2016-17

30.11.2016

TEST REPORT ON REINFORCEMENT STEEL

* Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

* Agency : **Technical Manager,** KRIDL, Bangalore.

* Name of work : Improvements to Roads and Footpath in Cross Roads of Maruthinagar and BB Nagara in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

* Reference : BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016

* Samples ID : 12 mm Bar

Technical Reference : IS: 1786-2008

Date of Testing : 30.11.2016

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	514	516	13.25	O.K	O.K

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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T-2377

Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-11/205a/CC Solid Block/2016-17 30.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of Work	:	Improvements to Roads and Footpath in Cross Roads of Maruthinagar and BB Nagara in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
Technical Reference	:	IS: 2185 (Part 1) - 2005
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	28.11.2016
Date of Testing	:	30.11.2016

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	36.35	262.3	3.28	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	34.15	261.5	3.27	
3	Block 3	35.26	263.5	3.29	
4	Block 4	36.35	262.4	3.28	
5	Block 5	34.15	261.5	3.27	
6	Block 6	35.26	264.1	3.30	
7	Block 7	36.35	260.7	3.26	
8	Block 8	34.15	259.5	3.24	

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Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-11/205a/Precast slab/2016-17 30.11.2016

TEST REPORT CONCRETE CORE (PRECAST SLAB)

* Name of Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Improvements to Roads and Footpath in Cross Roads of Maruthinagar and BB Nagara in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Kerb Stone
Sample Received on	:	28.11.2016
Date of Testing	:	30.11.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.385	2513.83	1.56	0.952	25.30	12.89	13.92	14.61	18.26
2	50.00	79.00	0.392	2527.14	1.58	0.955	26.30	13.39	14.47	13.81	17.26
3	50.00	80.00	0.399	2540.11	1.60	0.957	25.40	12.94	13.97	13.37	16.71

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Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-11/205a/Cube/2016-17 10.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager,** KRIDL, Bangalore.
* Name of the work	: Improvements to Roads and Footpath in Cross Roads of Maruthinagar and BB Nagara in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 10.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.12.2016	10.01.2017	8.135	365.6	16.25
2	13.12.2016	10.01.2017	8.213	375.3	16.68
3	13.12.2016	10.01.2017	8.358	396.3	17.61

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* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
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* Reference	: BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 10.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.12.2016	10.01.2017	8.208	363.5	16.16
2	13.12.2016	10.01.2017	8.350	375.6	16.69
3	13.12.2016	10.01.2017	8.408	384.5	17.09

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* Reference	: BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 10.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.12.2016	10.01.2017	8.258	375.5	16.69
2	13.12.2016	10.01.2017	8.347	386.6	17.18
3	13.12.2016	10.01.2017	8.385	392.8	17.46

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager,** KRIDL, Bangalore.
* Name of the work	: Improvements to Roads and Footpath in Cross Roads of Maruthinagar and BB Nagara in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 12.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2016	12.01.2017	8.136	365.4	16.24
2	15.12.2016	12.01.2017	8.257	379.8	16.88
3	15.12.2016	12.01.2017	8.308	382.5	17.00

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager,** KRIDL, Bangalore.
* Name of the work	: Improvements to Roads and Footpath in Cross Roads of Maruthinagar and BB Nagara in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 12.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2016	12.01.2017	8.099	373.5	16.60
2	15.12.2016	12.01.2017	8.186	386.6	17.18
3	15.12.2016	12.01.2017	8.268	399.5	17.76

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager,** KRIDL, Bangalore.
* Name of the work	: Improvements to Roads and Footpath in Cross Roads of Maruthinagar and BB Nagara in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 12.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2016	12.01.2017	8.125	369.8	16.44
2	15.12.2016	12.01.2017	8.255	389.6	17.32
3	15.12.2016	12.01.2017	8.307	405.6	18.03

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager,** KRIDL, Bangalore.
* Name of the work	: Improvements to Roads and Footpath in Cross Roads of Maruthinagar and BB Nagara in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	: Cement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{25}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 17.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.12.2016	17.01.2017	8.130	605.6	26.92
2	20.12.2016	17.01.2017	8.256	619.3	27.52
3	20.12.2016	17.01.2017	8.338	638.5	28.38

*Information is furnished by the Customer/Representative.

Note:

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

A.E.E.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-11/205a/Cube/2016-17 17.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager,** KRIDL, Bangalore.
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Technical Reference	: IS: 516-1959 (RA-2013)
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Cross Sectional Area	: 22500 mm^2
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Compressive Strength as on	: 28^{th} day
Sample Received on	: 17.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.12.2016	17.01.2017	8.229	610.2	27.12
2	20.12.2016	17.01.2017	8.305	625.3	27.79
3	20.12.2016	17.01.2017	8.406	643.2	28.59

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* Reference	: BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	: Cement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{25}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 17.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.12.2016	17.01.2017	8.189	605.6	26.92
2	20.12.2016	17.01.2017	8.236	632.2	28.10
3	20.12.2016	17.01.2017	8.314	615.8	27.37

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Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-11/205a/Cube/2016-17 07.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	: **Technical Manager,** KRIDL, Bangalore.
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* Reference	: BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	: Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 07.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.12.2016	07.01.2017	8.138	478.3	21.26
2	10.12.2016	07.01.2017	8.293	496.6	22.07
3	10.12.2016	07.01.2017	8.315	518.2	23.03

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* Sample ID	: Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 07.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.12.2016	07.01.2017	8.215	506.6	22.52
2	10.12.2016	07.01.2017	8.326	516.8	22.97
3	10.12.2016	07.01.2017	8.415	538.9	23.95

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* Reference	: BBMP/EE/BTP/WO/142/2016-17 Dated: 24.10.2016
* Sample ID	: Covering Slab Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 18.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.12.2016	18.01.2017	8.135	505.5	22.47
2	21.12.2016	18.01.2017	8.265	518.3	23.04
3	21.12.2016	18.01.2017	8.328	546.3	24.28

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